

## CLAIMS:

1. A grid having wall elements absorbing electromagnetic radiation, preferably X-rays, wherein the wall elements consist wholly or partially of a mixture of a material which is flowable in the processing state and an absorption material absorbing electromagnetic radiation.
- 5 2. A grid as claimed in claim 1, characterized in that the absorption material is embedded in the mixture in the form of particles.
3. A grid as claimed in claim 1, characterized in that the material which is  
10 flowable in the processing state contains or consists of a polymer, in particular a thermoplastic such as polypropylene, liquid crystal polymer, polyamide, polycarbonate and/or polyoxymethylene.
4. A grid as claimed in claim 1, characterized in that the absorption material  
15 contains or consists of a heavy metal, preferably tungsten, lead, bismuth, tantalum and/or molybdenum.
5. A grid as claimed in claim 1, characterized in that the wall elements exhibit a double comb structure with webs projecting on two sides from a base surface.
- 20 6. A grid as claimed in claim 5, characterized in that the base surface takes the form of an absorbent foil provided with perforation holes, wherein the webs are connected from one side of the foil to the other through the perforation holes.
- 25 7. A grid as claimed in claim 5, characterized in that the wall elements are arranged alternately with lamellae of an absorbent material.
8. A detector having a grid for the absorption of X-rays, wherein the grid comprises wall elements, which consist wholly or partially of a mixture of a material which is

flowable in the processing state and an absorption material absorbing electromagnetic radiation.

9. An imaging device for generating an image of an object or part of an object by  
5 X-radiation, comprising a detector having a grid for the absorption of X-rays, wherein the grid comprises wall elements, which consist wholly or partially of a mixture of a material which is flowable in the processing state and an absorption material absorbing electromagnetic radiation.
- 10 10. A method of producing a grid having wall elements absorbing electromagnetic radiation, wherein the wall elements are produced wholly or partially by molding, in particular injection molding, from a mixture of a material which is flowable in the processing state and an absorption material absorbing electromagnetic radiation.